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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,071	09/05/2003	George H. Lane III	11061Div1	2070	
26702 75	590 08/21/2006		EXAM	EXAMINER	
MORRIS, MANNING & MARTIN LLP			DESTA, ELIAS		
1600 ATLANTA FINANCIAL CENTER 3343 PEACHTREE ROAD NE			ART UNIT	PAPER NUMBER	
ATLANTA, G	A 30326		2857		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		10/605,071	LANE ET AL.					
		Examiner	Art Unit					
		Elias Desta	2857					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHO WHIC - Exter after: - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR R HEVER IS LONGER, FROM THE MAILIN sions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory period for reply is specified above, the maximum statutory period for reply will, by the period by the Office later than three months after the the patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIER 1.136(a). In no event, however, may a con. Deriod will apply and will expire SIX (6) MO statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communications (35 U.S.C. § 133).					
Status								
 Responsive to communication(s) filed on <u>05 September 2003</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 								
Dispositi	on of Claims							
5)	Claim(s) 1-39 is/are pending in the application of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-39 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and on Papers The specification is objected to by the Example of Example on 05 September 2000. Applicant may not request that any objection to Replacement drawing sheet(s) including the company of the oath or declaration is objected to by the example of the oath or declaration is objected to by the example of the oath or declaration is objected to by the oath of the oath or declaration is objected to by the oath of the oath oath of the oath oath of the oath of the oath oath oath oath oath oath oath oath	hdrawn from consideration. and/or election requirement. aminer. aminer. allow accepted or b) to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.1	121(d).				
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/5 r No(s)/Mail Date <u>9/5/2003</u> .	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152)					

Detailed Action

Claim rejection – 35 U.S.C. 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-39 are directed to non-statutory subject matter. In reference to claims 1, 18 and 21: The output from the system that includes comparing elapsed time entered by a technician to the completed work order data is not tangible and concrete.

The claimed invention as a whole must accomplish a practical application. That is, it must produce a "useful, concrete and tangible result." State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02. The purpose of this requirement is to limit patent protection to inventions that possess a certain level of "real world" value, as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519, 528-36, 148 USPQ 689, 693-96); In re Ziegler, 992, F.2d 1197, 1200-03, 26 USPQ2d 1600, 1603-06 (Fed. Cir. 1993)).

A claim is limited to a practical application when the method, as claimed, produces a concrete, tangible and useful result; i.e., the method recites a step or act of producing something that is concrete, tangible and useful. Referring to the "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" in determining whether the claim is for a "practical application," the focus is not on whether the steps taken to achieve a particular result

are useful, tangible and concrete, but rather that the final result achieved by the claimed invention is "useful, tangible and concrete."

The step of "comparing the elapsed time entered by the technician for a completed work order to a predetermined standard benchmark for the maintenance problem" does not constitute a new or improved output that is considered useful, concrete and tangible. However, the outcome in the instant claims is useful and has a potential to have a concrete and tangible output if it is carried out by further process step. At best, the system has a "potential" to measure the efficiency of the technician. In the instant claims, "the efficiency of the technician in fixing the problem" is not actually realized. Hence, in the absence of a useful, concrete and tangible outcome, the claims are deemed to be non-statutory

Claim rejection - 35 U.S.C 102

- The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 3. basis for the rejections under this section made in this Office action:
 - (e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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4. <u>Claims 1-11, 13-24 and 26-39</u> are rejected under 35 U.S.C. 102 (e) as being unpatentable over <u>Li</u> (U.S. Patent 6,609,050).

In reference to claims 1, 18 and 31: Li teaches a method for processing maintenance work orders (see Li, Fig. 1). The method includes:

- ➤ Identifying maintenance problem (see <u>Li</u>, Fig. 6 section 96 and Fig. 9, 'line item analysis);
- Communicating said problem to a maintenance office (see <u>Li</u>, Fig. 9, complaint window).
- ➤ Generating a work order for the maintenance problem in a computer, including the location of the problem and the type of the problem (see *Li*, Figs. 10 and 11);
- Assigning the work order to a technician to fix the problem (see <u>Li</u>, Fig. 14 and column 4, lines 49-53);
- Entering data from each the technician into the computer related to the technician completing the work order, including the action taken to fix the problem and the elapsed time to complete the work order (see <u>Li</u>, Fig. 8, module 204, service advisor or technician); and
- Comparing the elapsed time entered by the technician for the completed work order to a predetermined standard benchmark for the type of maintenance problem to measure the efficiency of the technician in fixing the problem (see <u>Li</u>, column 3, lines 23-31).

As transferring the data or communicating electronically, all the actions are performed through the electronic or network computer system having a dedicated database structure to store

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and facilitate all the functions required for running the maintenance work order method (see \underline{Li} , Fig. 1)

With regard to claims 2, 19 and 32: Li further teaches that the method includes communicating the problem to the maintenance office (see Li, Fig. 7, Pre-Diagnosis System).

With regard to claim 3: Li further teaches that the method includes electronically assigning each work order (see Li, Fig. 17).

With regard to claims 4: Li further teaches that the method includes recording the technician work order assignment in a computer (see Li, Figs. 1 and 17).

With regard to claims 5: Li further teaches that the method includes electronically transmitting and entering the service data from the technician because customers have access to obtain vehicle related data through the network (see Li, Figs. 1, 23 and 24, service request and customer statement dialogue box).

With regard to claim 6: Li further teaches that the method includes a computer interface where the customer identifies at least one of the maintenance problems (see <u>Li</u>, Fig. 9, COSM Screen, customer identifying the problem).

With regard to claims 7 and 20: Li further teaches that the method includes customer communicating the problem to the maintenance office (see Li, Fig. 9, COSM screen also includes 'Tech Recommended Service' screen).

With regard to claims 8 and 21: Li further teaches that the customer electronically communicates the problem to the maintenance office because the communication is established over a computer network (see Li, Fig. 1).

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With regard to claims 9 and 22: Li further teaches that the service technician notifies the customer of the completion of the work order (see Li, Fig. 20, 'task window').

With regard to claims 10, 23 and 33: Li further teaches that the method includes the customer electronically communicating and generating work order (see Li, Figs. 8 and 9).

With regard to claims 11, 24 and 34: Li further teaches that the method includes customer electronically checking the status of the work order (see Li, Fig. 23, service request window).

With regard to claims 13, 26 and 35: Li further teaches that the method includes updating the collected data with the characteristics of completed work order (see Li, column 5, lines 45-49).

With regard to claims 14, 27 and 36: Li further teaches that the method includes tailoring each work order to include specific characteristic of the location (see Li, Fig. 17, such as vehicle shaking at high speed with respect to break or transmission problem).

With regard to claims 15, 28 and 37: Li further teaches that the method includes analyzing the elapsed time and the data to determine if training of the technician is warranted (see Li, column 3, lines 23-31).

With regard to claims 16, 29 and 38: Li further teaches that analyzing the data and generating the reports related to the data and the technician (see Li, column 3, lines 17-22).

With regard to claims 17, 30 and 39: Li further teaches that the method includes analyzing the data and identifying trends (e.g., steering wheel shaking at high speed) related to the data (see Li, column 3, lines 32-39).

Claim rejection – 35 U.S.C. 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. <u>Claims 12 and 25</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Li</u> (U.S. Patent 6,609,050) in view of <u>Squeglia et al</u>. (U.S. PAP 2002/0156692, hereon <u>Squeglia</u>).

<u>In reference to claims 12 and 25</u>: <u>Li</u> further teaches that the customer transmits the work order through a computer network (see <u>Li</u>, Figs. 1 and 9). However, <u>Li</u> does not teach that the customer request for work order is transmitted through a wireless network.

Squeglia teaches a computerized method and system for managing equipment maintenance and service using portable units (see <u>Squeglia</u>, Fig. 2), which may be converted, to a service shop via wireless communication (see <u>Squeglia</u>, Paragraph [0023]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the computerized work order system as taught by <u>Li</u>, and incorporate a wireless interface unit as shown in Fig. 1 of <u>Squeglia</u> in order to facilitate the customer work order with a portable networked computer device because the portable or wireless network provides the customer to communicate any maintenance related issues with the technician prime and enables the customer to send multimedia type information, such as picture clips, sound or other forms of data to the maintenance center and obtain service data from the technician (see <u>Squeglia</u>, page 7, paragraph 56).

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Conclusion

7. <u>Citation of pertinent prior art:</u>

Sasaki et al. (IEEE Article, 'Development of Intelligent Workflow System Using Know-how acquired Based on Work Order') teaches a method of managing work flow using stored detailed process of work as work log, and finding out the "know-how" of work by analyzing the stored work-log.

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- Muller et al. (IEEE Article, 'A Simulation-Based Work Order Release

 Mechanism For A Flexible Manufacturing System') teaches an integrated

 simulation model and its use for a prescriptive tool to support real-time decisionmaking process for work order release, fixture build-up and raw material
 requirement.
- Eryurek et al. (U.S. Patent 6,795,798) teaches remote analysis of process control plant data.
- ➤ Jones et al. (U.S. PAP 2004/0062359) teaches user interface and system to facilitate telephone circuit maintenance and testing.
- Pangrac et al. (U.S. PAP 2003/0134599) teaches field technician assistant.
- ➤ <u>Howman et al</u>. (U.S. PAP 2003/0040826) teaches method and apparatus for managing maintenance operations.
- Treit et al. (U.S. PAP 2002/0087220) teaches system and method to provide maintenance for an electrical power generation, transmission and distribution system.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (571)-272-2214. The examiner can normally be reached on M-Th (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elias Desta Examiner Art Unit 2857

- E.d.

August 1, 2006

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